

## Utah Weekly Pertussis Update

2016 data, through MMWR week ending April 9, 2016 (MMWR week 14)

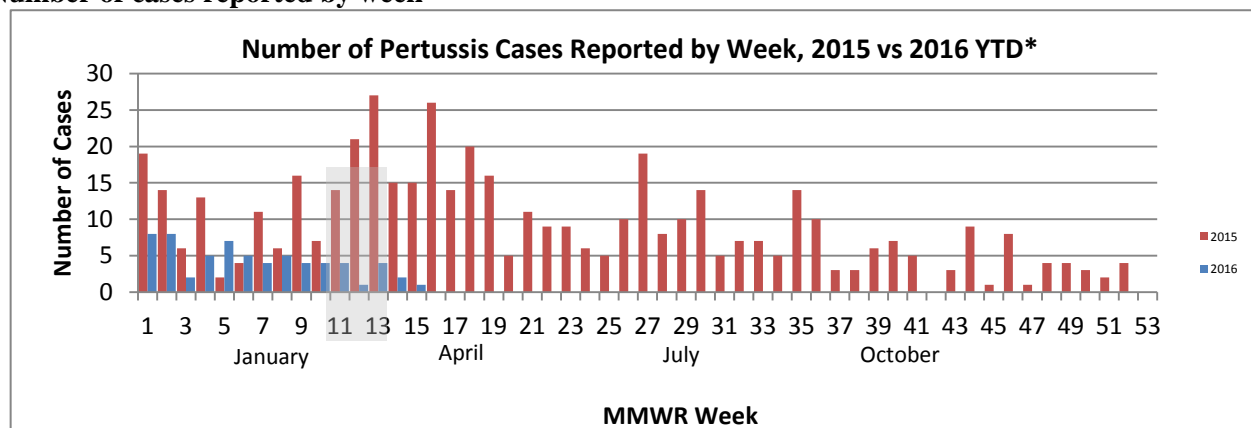
*Data presented in this report are based on current data available and will be subject to change weekly.*

### Data Summary

Total number of cases reported, 2016 year-to-date (YTD)	63	Utah Incidence rate, 2016 year-to-date (YTD) per 100,000 person-years	7.8
Total number of cases reported 2015	483	Utah Incidence rate, 2015 per 100,000 person-years	16.7
Number of cases reported in past week	2	National Incidence rate, 2014 per 100,000 person-years.	10.4
Total number of cases reported, through same time period 2015	175	2016 Hospitalizations	4
Age groups with the highest rates	<1 year	2016 Cases in infants <1 year	4
	1-4 year		

\*National Incidence Rate is updated as released by the Centers for Disease Control and Prevention.

### Number of cases reported by week



\*Additional cases may have occurred, especially in the most recent 3 weeks that have not yet been reported, as indicated by the grayed out section of the graph above.

### 2016 Year-to-Date Incidence Rates, By Age

Age (years)	2016 Cases	2014 population	Rate*, **
<1	4	50,629	9.5
1-4	8	201,502	4.8
5-14	9	511,355	2.1
15-24	8	474,017	2.0
25-34	8	440,622	2.2
35-44	7	386,350	2.2
45-54	9	306,598	3.5
55-64	7	276,569	3.0
65+	3	295,260	1.2
Total	63	2,942,902	7.8

\* Rate is calculated per 100,000 person years.

Infants less than 1 year of age have historically had the highest incidence rates of pertussis due to their susceptibility.

### School Age Incidence Rates, 2016 Year-to-Date

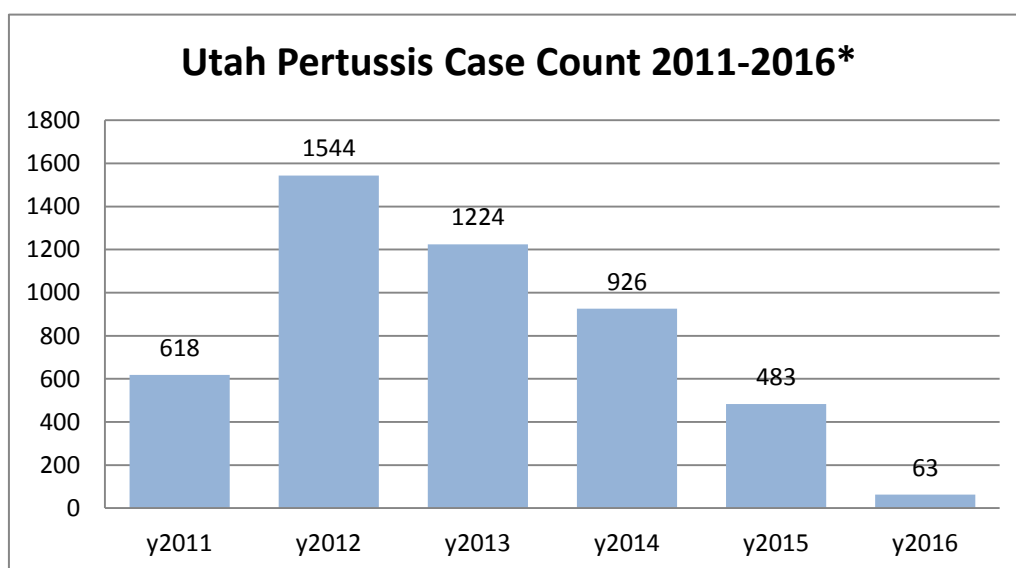
Grade	Age (years)	2016 Cases	2014 Population	Rate*
Preschool	3-4	42	101,497	49.7
Kindergarten	5	0	52,285	0.0
1	6	2	53,101	4.5
2	7	0	52,876	0.0
3	8	1	52,082	2.3
4	9	0	51,852	0.0
5	10	1	51,206	2.3
6	11	1	50,689	2.4
7	12	1	48,996	2.5
8	13	0	49,110	0.0
9	14	3	49,158	7.3
10	15	2	47,568	5.0
11	16	1	46,830	2.6
12	17	2	46,231	5.2

\* Rate is calculated per 100,000 person-years

School age incidence rates were calculated using the average age of a student in each grade.

The high incidence rates in 5th and 6th grade may be due to waning immunity.

### Utah Case Counts of Pertussis, 2011-2016\* Year to Date



Pertussis tends to be cyclical. Reports have increased in Utah since 2010, peaked in 2012, and are currently trending downward.

\* 2016 data includes pertussis cases reported year to date. 2010-2014 data reflects cases reported during the entire calendar year for each year.

**Incidence of pertussis by Local Health Department, 2016 YTD**

Local Health Department	2016 Cases	Rate*
Bear River	1	0.7
Central Utah	0	0.0
Davis County	6	2.2
Salt Lake County	23	2.5
San Juan County	0	0.0
Southeast Utah	0	0.0
Southwest Utah	1	0.6
Summit County	2	6.1
Tooele County	2	3.9
TriCounty	0	0.0
Utah County	15	3.2
Wasatch County	0	0.0
Weber-Morgan	11	5.3

\* Rate is calculated per 100,000 person-years  
using 2014 Utah population estimates

